Performance tasks for grade four

Science

General instructions:

- The tasks are to be distributed, administered and assessed in two successive classes (one period).
- The teacher is to distribute the tasks and explain what to do each task.
- Students can use the student's book.

Performance tasks

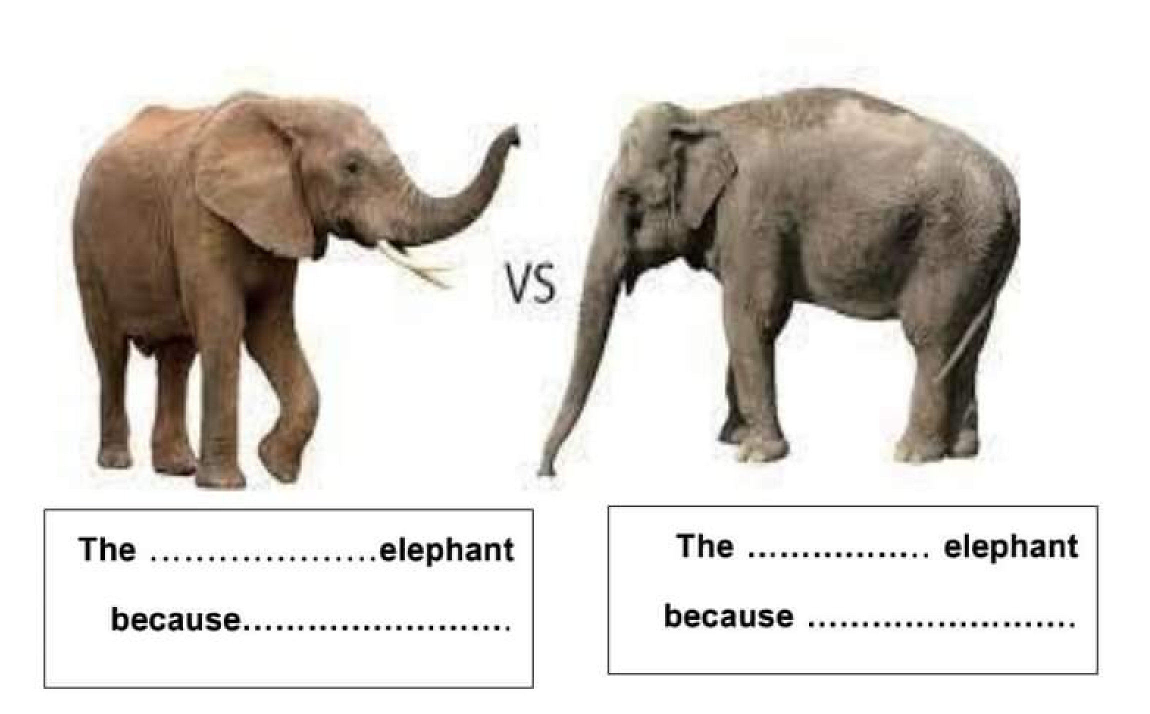
Science

African and Asian elephant

Name:………………. .

Class: ………………………

For most of us, most elephants are similar to each other; so humans can't differentiate between them. This is different for the scientists. There are two main types of elephants: the African elephant and the Asian elephant. If you know that the African elephant can live in hot temperature environments but the Asian elephant can live in mild temperature environments, which one of these is the African elephant and which one is the Asian elephant? Why?



Nowadays wildlife experts agree that the elephants are in danger as a result of the destruction of their natural homes to be used for farming or to construct buildings as well as being hunted by hunters to get their tusks for ivory trade.

Write some suggestions for keeping away the elephants from the effects of human activities. Use these guiding words:

Stating laws to prevent ………

Stopping from …………………..



Performance tasks

Science

Where does it live?

Name: …………….

Class: ……………………..

Observe this picture:

Expect where this animal with big ears lives:

a-in hot desert habitat   b- in cold polar environment.

What is your evidence for that?

....



1- If you know that when this animal sees its enemy from other animals, it stands without any movement so it is not seen by the enemy.

This adaptation:

a- structural   b- behavioral

2-This animal has long legs which enable it to escape from animals. This adaptation: a- structural   b- behavioral

In this picture, you can see a deer which lives in desert and it is one of the animals which adapt to living in the desert habitat. Observe the picture and determine:

1- The kind of adaptation which enables it from running very fast........

a- structural   b- behavioral

2-This deer is active at night to get food and avoid enemies. This adaptation is .... a- structural   b- behavioral

Performance tasks

Science

Can the polar bear live in hot habitat?

Name: ....

Class: ....



-You studied that the polar bear adapts to living in very cold habitat. Why can't the polar bear live in the hot desert?

……………………………………………

……………………………………………

-What changes should happen to this animal to be able to live in the hot desert ………….



-The fur color: the color changes to ……….

-Think and expect: if the polar bear moves to live in the camel's desert habitat, **will its life continue: yes (   ) no (   )**

Performance tasks

Science

Which one do you prefer?

Name: ……………………………

Class: …………………………………

Cars are different according to the different kinds of energy which they use. There are cars which work with solar energy; others work with electricity and others work with benzene.

-If you were a decision maker in your city and you have to choose one kind of cars to be the only kind to use in your city. What kind will you choose according to these criteria?

Criteria	Solar car	Electrical car	Fuel car
Cheap source of energy			
Clean source of energy			

-Order the cars according to the preference of your city which has a lot of sunshine hours.

1- .... 2- .... 3- ....

-Write your decision and say why.

....

....

....

Performance tasks

Science

A sports competition

Name: ....

Class: ....

You can see a sports competition. What can you observe in energy transfer (potential energy- kinetic energy) when the player crosses the obstacles?



From this figure, determine the type of energy across the stages in which the player crosses the obstacles

Position	Acquired Energy
Position 1	....
Position 2	....
Position 3	....

In which position there is the greatest potential energy?

....

In which position there is the greatest kinetic energy?

....

Performance tasks for grade four

Science

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Performance tasks

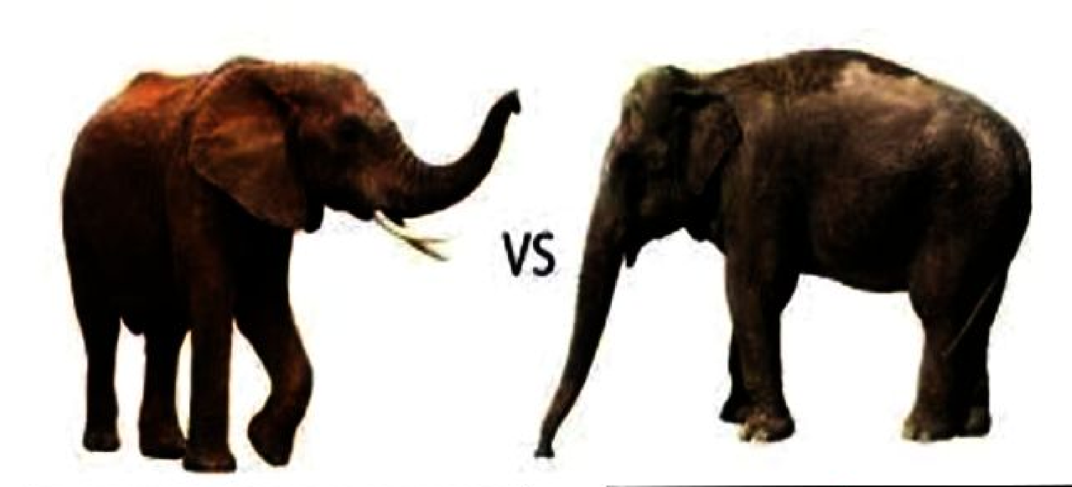
Science

African and Asian elephant

Name:.................. .

Class: ....

For most of us, most elephants are similar to each other; so humans can't differentiate between them. This is different for the scientists. There are two main types of elephants: the African elephant and the Asian elephant. If you know that the African elephant can live in hot temperature environments but the Asian elephant can live in mild temperature environments, which one of these is the African elephant and which one is the Asian elephant? Why?



The ..African...elephant because......................... Taller Heavier than Large ears	**The ..Asian.. elephant because ....** Shorter in hight Lighter than Small ears

Nowadays wildlife experts agree that the elephants are in danger as a result of the destruction of their natural homes to be used for farming or to construct buildings as well as being hunted by hunters to get their tusks for ivory trade.

Write some suggestions for keeping away the elephants from the effects of human activities. Use these guiding words:

Starting laws to prevent ...Elephant hunting..................

Stopping from .Destruction of elephant natural home , hunt elephant to use its trucks ....

Stating laws to prevent ....

Stopping from ....



Performance tasks

Science

Where does it live?

Name: ....

Class: ....

Observe this picture:

Expect where this animal with big ears lives:

a-in hot desert habitat **b- in cold polar environment.**

What is your evidence for that?

Big ears used to decrease its boby tempreature



1- If you know that when this animal sees its enemy from other animals, it stands without any movement so it is not seen by the enemy.

This adaptation:

a- structural **b- behavioral**

2-This animal has long legs which enable it to escape from animals. This adaptation: **a- structural** **b- behavioral**

In this picture, you can see a deer which lives in desert and it is one of the animals which adapt to living in the desert habitat. Observe the picture and determine:

1- The kind of adaptation which enables it from running very fast........

a- structural **b- behavioral**

2-This deer is active at night to get food and avoid enemies. This adaptation is .... a- structural **b- behavioral**

Tick fur
....
Small ears
....

-**What changes should happen to this animal to be able to live in the hot desert** ...large ears...



-The fur color: the color changes to ...Sandy color...

-Think and expect: if the polar bear moves to live in the camel's desert habitat, **will its life continue: yes ( ) no ( )**

Performance tasks

Science

Which one do you prefer?

Name: ....

Class: ....

Cars are different according to the different kinds of energy which they use. There are cars which work with solar energy; others work with electricity and others work with benzene.



–If you were a decision maker in your city and you have to choose one kind of cars to be the only kind to use in your city. What kind will you choose according to these criteria?

Criteria	Solar car	Electrical car	Fuel car
Cheap source of energy	✓	✗	✗
Clean source of energy	✓	✓	✗

–Order the cars according to the preference of your city which has a lot of sunshine hours.

1– Solar car 2– Electric car 3– Fuel car

–Write your decision and say why.

Solar car use sun (cheap and clean source)

Performance tasks

Science

A sports competition

Name: ....

Class: ....

You can see a sports competition. What can you observe in energy transfer (potential energy– kinetic energy) when the player crosses the obstacles?





From this figure, determine the type of energy across the stages in which the player crosses the obstacles

Position	Acquired Energy
Position 1	kinatic…………………
Position 2	potintial………………
Position 3	……………kinatic

In which position there is the greatest potential energy?

………………………2………………………

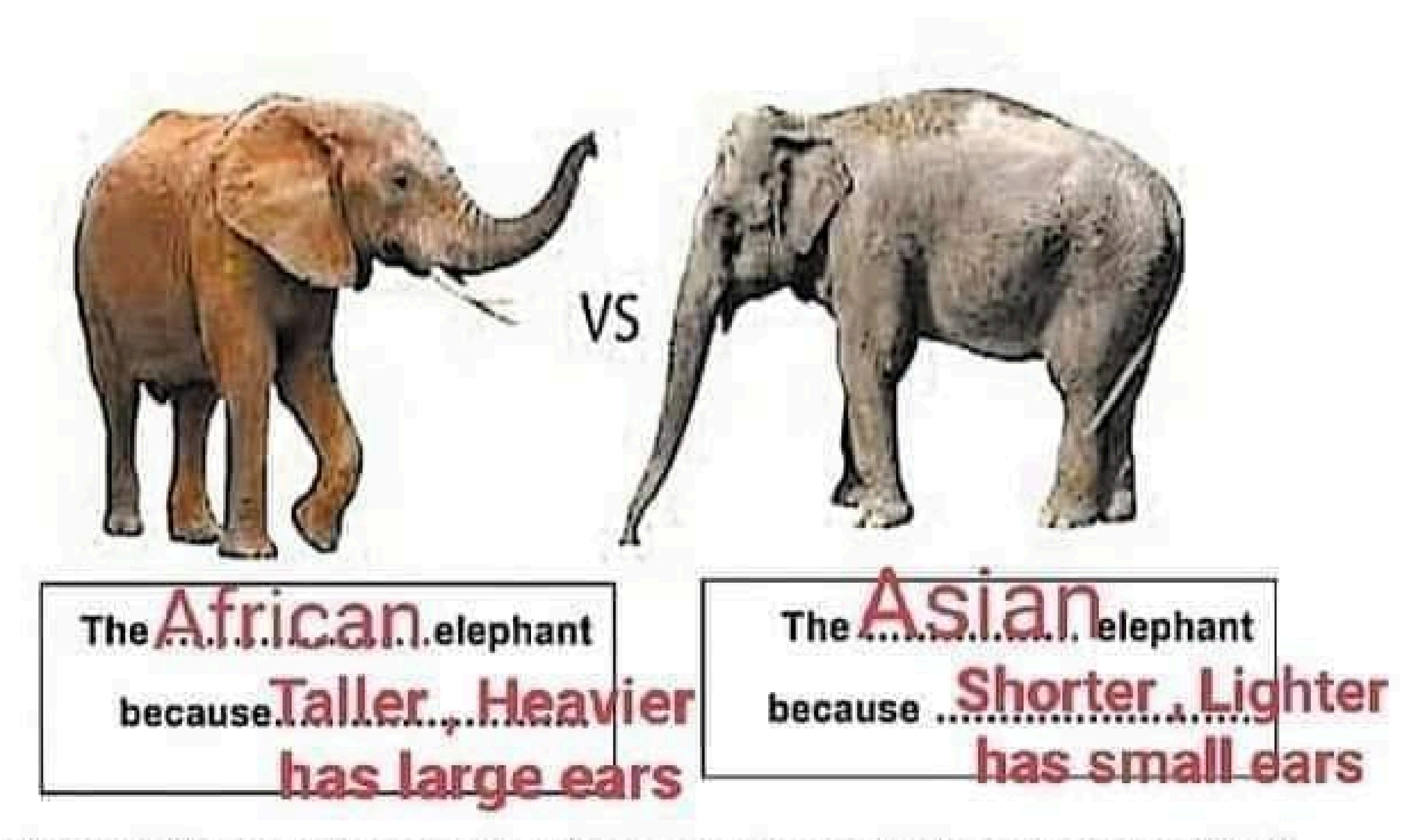
In which position there is the greatest kinetic energy?

………………………3………………………

Name:.................. .

Class: ....

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The African elephant because Taller, Heavier has large ears

The Asian elephant because Shorter, Lighter has small ears

Nowadays wildlife experts agree that the elephants are in danger as a result of the destruction of their natural homes to be used for farming or to construct buildings as well as being hunted by hunters to get their tusks for ivory trade.

Write some suggestions for keeping away the elephants from the effects of human activities. Use these guiding words:

putting laws to prevent

1- The hunting of elephants.

2- Destroying Thier homeland.

Observe this picture:

Expect where this animal with big ears lives:

a-in hot desert habitat **b- in cold polar environment.**

What is your evidence for that?

It has large size ears to cool its body.



1- If you know that when this animal sees its enemy from other animals, it stands without any movement so it is not seen by the enemy.

This adaptation:

a- structural **b- behavioral**

2-This animal has long legs which enable it to escape from animals. This adaptation: **a- structural** **b- behavioral**

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1- The kind of adaptation which enables it from running very fast........

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Performance tasks

Science

Can the polar bear live in hot habitat?



Name: ....

Class: ....

-You studied that the polar bear adapts to living in very cold habitat. Why can't the polar bear live in the hot desert?

5

It has thick white fur and small ears

....

....

-What changes should happen to this animal to be able to live in the hot

fur become thin - ear become bigger desert ....



-The fur color: the color changes to ....



-Think and expect: if the polar bear moves to live in the camel's desert habitat, **will its life continue:** **yes (   )** **no (   )**

Performance tasks

Science

Which one do you prefer?

Name: ....

Class: ....

Cars are different according to the different kinds of energy which they use. There are cars which work with solar energy; others work with electricity and others work with benzene.

-If you were a decision maker in your city and you have to choose one kind of cars to be the only kind to use in your city. What kind will you choose according to these criteria?

Criteria	Solar car	Electrical car	Fuel car
Cheap source of energy	✓		
Clean source of energy	✓	✓	

-Order the cars according to the preference of your city which has a lot of sunshine hours.

1- solar car 2- electrical car 3- fuel car

-Write your decision and say why.

Because solar energy is cheap and clean source of energy that don't pollute environment.

Performance tasks

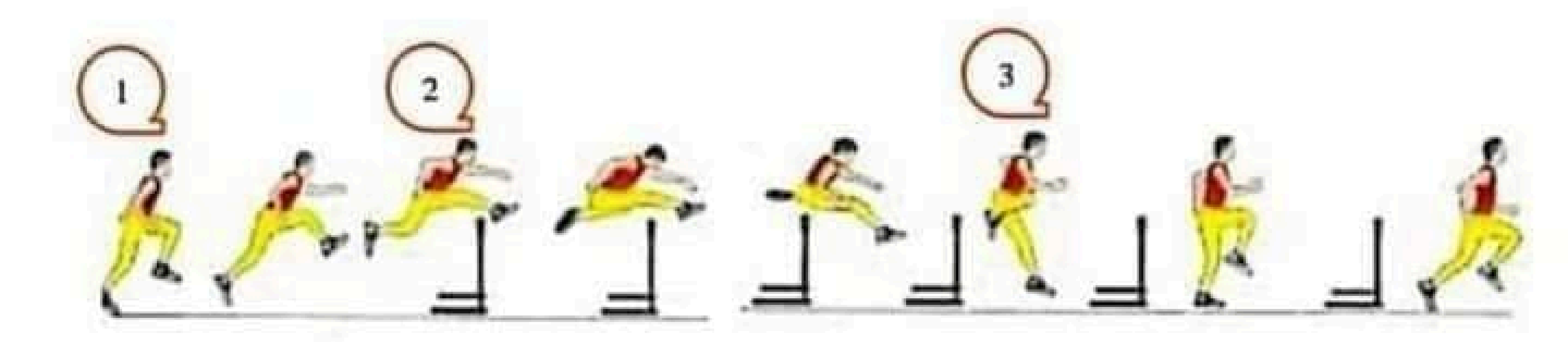
Science

A sports competition

Name: ....

Class: ....

You can see a sports competition. What can you observe in energy transfer (potential energy– kinetic energy) when the player crosses the obstacles?



From this figure, determine the type of energy across the stages in which the player crosses the obstacles

Position	Acquired Energy
Position 1	kinetic energy
Position 2	potential energy
Position 3	kinetic energy

In which position there is the greatest potential energy?

……………………2……………………

In which position there is the greatest kinetic energy?

……………………3……………………